Message

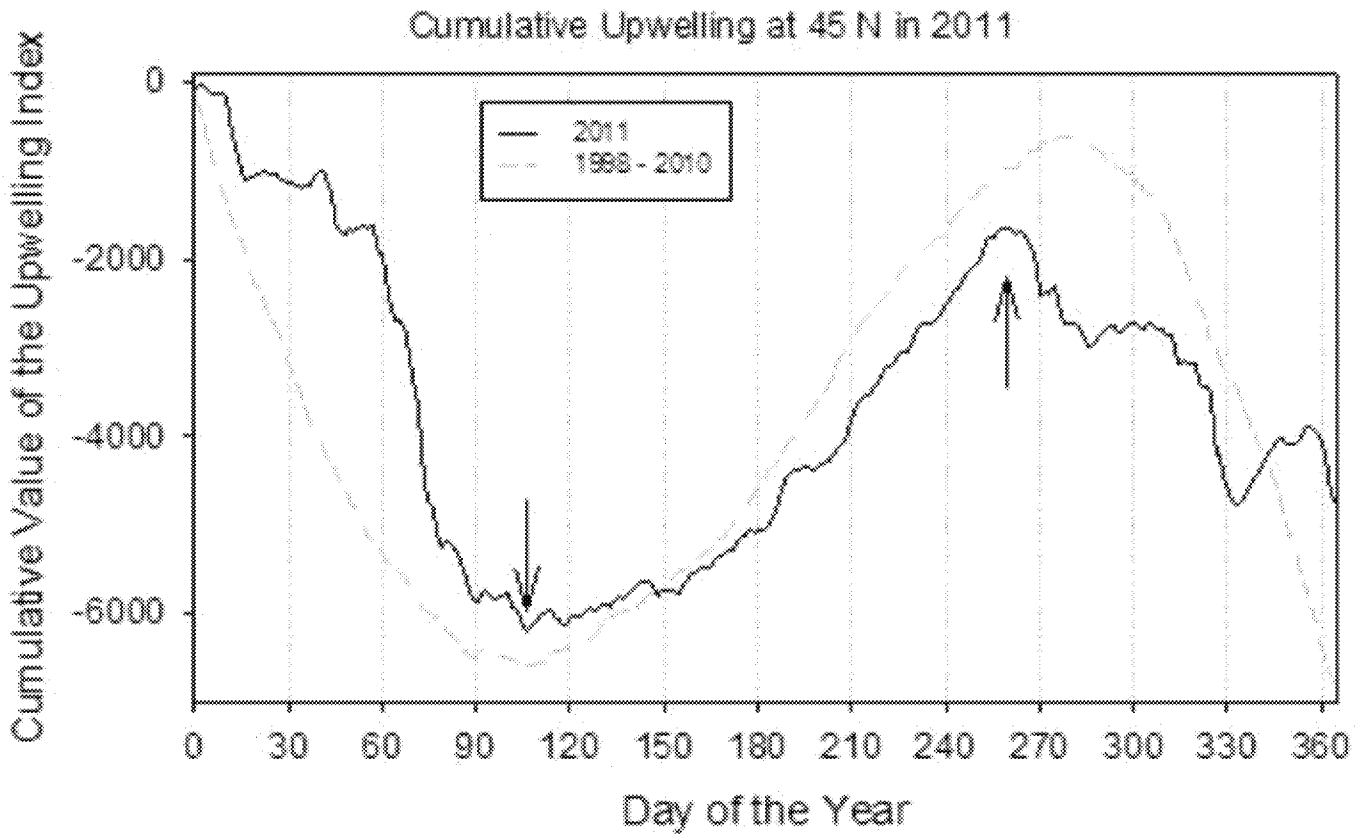
From: Labiosa, Rochelle [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DED3654216C9461D95CD5A3CEEC507EF-LABIOSA, ROCHELLE]
Sent: 3/3/2018 12:20:44 AM
To: Fullagar, Jill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7ba061353c314b40a14a8be1ee382ae3-Gable, Jill]
CC: Brown, Cheryl A. [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dd6f8a562924439aaf97ca98ddaf1e10-Brown, Cheryl]
Subject: Upwelling paper FW: Deliberative Process / Ex. 5 Call-n: Personal Privacy / Ex. 6 ode: Personal Privacy / Ex. 6 Adobe Connect: https://epawebconferencing.acms.com Personal Privacy / Ex. 6
Attachments: peterson_etal_2011.pdf; ATT89656

Hi Jill,

The attached is what I dug up from Bill Peterson when we were looking for published upwelling data for 2011. In the briefing doc you asked for a citation for Marty Jacobsen's figure - he downloaded the data from a NOAA website and analyzed it, so it was not from a publication. Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Citation: *Ocean Ecosystem Indicators of Salmon Marine Survival in the Northern California Current*. Peterson et al. January 2012. Project Summary for NOAA.



Rochelle Labiosa, Ph.D.

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From: Labiosa, Rochelle
Sent: Monday, March 14, 2016 10:24 AM
To: Cox, Michael <Cox.Michael@epa.gov>; Fullagar, Jill <Fullagar.Jill@epa.gov>; Cope, Ben <Cope.Ben@epa.gov>; Cora, Lori <Cora.Lori@epa.gov>; Brown, Cheryl A. <Brown.Cheryl@epa.gov>
Subject: RE Deliberative Process / Ex. 5 Call-n: Personal Privacy / Ex. 6 ode: Personal Privacy / Ex. 6 Adobe Connect: https://epawebconferencing.acms.com/ Personal Privacy / Ex. 6

I found a great summary paper from NOAA 2011 (Bill Peterson) including cumulative upwelling index and strength compared to previous years– with other climatologies to illustrate what was driving coastal dynamics in 2011. So, Jill, no need to have Marty do the stats on the upwelling index. Evidence shows there was less upwelling than usual in 2011. See page 27:
One can see in Figure 10 that upwelling was initiated on day 105 (15 April) in 2011. The winds were relatively weak in the beginning of the season, so significant upwelling did not start until day 155 (June 4). There was a rather abrupt end to the 'season', with an ultimate reversal to primarily downwelling on day 259 (16 September). The cessation of upwelling in mid-September resulted in one of the shortest annual upwelling periods since the 1997 El Nino. The total amount of upwelling for 2011 was 4,555 m^3/s per 100 m of coastline, which is 26% lower than the 40-year average of 6,163 m^3/s per 100 m.
Figure 10.
Cumulative upwelling index for 2011. Vertical arrows indicate the date of physical Spring transition (Day 105) and Fall transition (Day 246). 2011 had a shorter than average upwelling season and below average total upwelling.

http://www.nwfsc.noaa.gov/research/divisions/fe/estuarine/oeip/documents/peterson_etal_2011.pdf

peterson_etal_20...

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-----Original Appointment-----
From: Cox, Michael
Sent: Friday, March 11, 2016 9:12 AM
To: Fullagar, Jill; Cope, Ben; Cora, Lori; Labiosa, Rochelle; Brown, Cheryl A.
Subject: Deliberative Process / Ex. 5 Call-n: Personal Privacy / Ex. 6 ode: Personal Privacy / Ex. 6, Adobe Connect: https://epawebconferencing.acms.com/ Personal Privacy / Ex. 6
When: Monday, March 14, 2016 9:00 AM-10:00 AM (UTC-08:00) Pacific Time (US & Canada).
Where: R10Sea-Room-14Elwha/R10-Rooms-Service-Center

Thank you everyone for providing input, data, etc. Still some work to go but ran out of time today to continue.

Monday March 14th
9:00 - 10:00
Call-in: Personal Privacy / Ex. 6
Code: Personal Privacy / Ex. 6
Adobe Connect: https://epawebconferencing.acms.com Personal Privacy / Ex. 6

Materials (I have attached three documents for our discussion on Monday.)

1. Deliberative Process / Ex. 5 (still needs work but I ran out of time for today).
<< File: Upwelling Data From Marty Jacobsen.xlsx >>

2. Upwelling data (thanks Rochelle and Marty)
<< File: OA Deliberative Process / Ex. 5 March 12 2016 Draft.docx >>
3. Bednarsek data points (thanks Cheryl)
<< File: Bednarsek Only Data points off of Oregon.pdf >>

Agenda

1. **Discuss paper (I would suggest going through section by section).**
- Identify additional data needed.
- Discuss recommendations.

2. **Discuss possible meeting with Jan Newton and Dick Feely (they talked with Brian Rappoli at some conference)**

3. **Other**